

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P296693

Luminaire Tested: **22RLN-LD5-40-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296693  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36060-R2)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22RLN-LD5-40-RDP-UNV-L92765-W2A1-U-3500K  
Description: RLN LED 2x2 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2778.0 lumens  
Efficiency: N/A  
Efficacy: 86.3 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.38 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

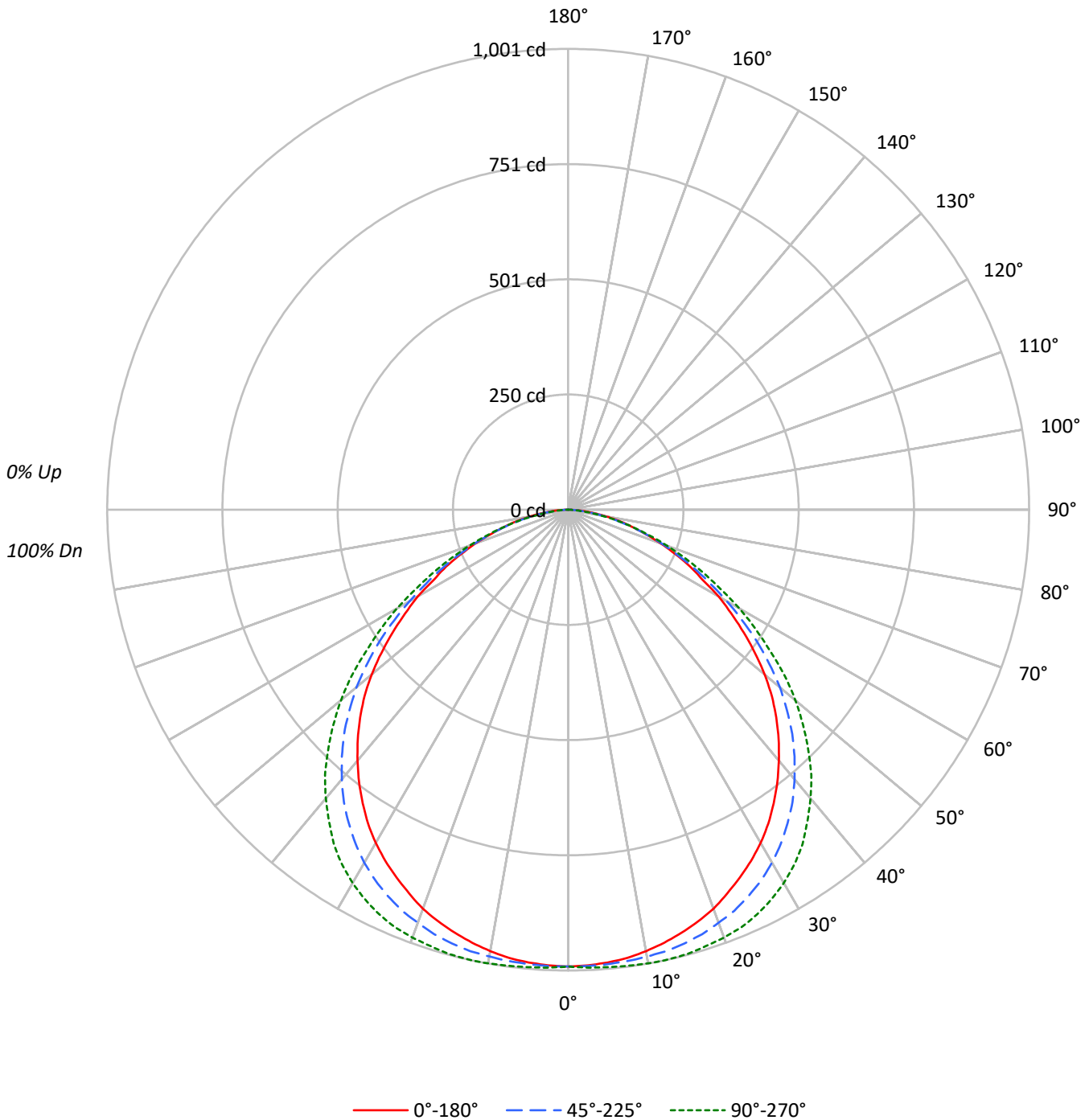
Input Watts (W): 32.178  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P296693

CATALOG NUMBER: 22RLN-LD5-40-RDP-UNV-L92765-W2A1-U-3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P296693

CATALOG NUMBER: 22RLN-LD5-40-RDP-UNV-L92765-W2A1-U-3500K

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2670	2670	2670
5°	2667	2676	2694
10°	2660	2693	2735
15°	2651	2717	2783
20°	2642	2735	2832
25°	2619	2749	2881
30°	2598	2751	2909
35°	2556	2730	2914
40°	2501	2686	2877
45°	2431	2619	2806
50°	2333	2511	2696
55°	2184	2352	2511
60°	2030	2140	2314
65°	1861	1926	2055
70°	1685	1711	1792
75°	1484	1448	1501
80°	1291	1185	1133
85°	1050	787	682



TEST NUMBER: P296693

CATALOG NUMBER: 22RLN-LD5-40-RDP-UNV-L92765-W2A1-U-3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.5	3.4
10°-20°	275.5	9.9
20°-30°	426.9	15.4
30°-40°	519.5	18.7
40°-50°	529.1	19.0
50°-60°	446.2	16.1
60°-70°	301.8	10.9
70°-80°	150.8	5.4
80°-90°	33.6	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	796.9	28.7
0°-40°	1316.4	47.4
0°-60°	2291.7	82.5
0°-90°	2778.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2778.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	992	992	992	992	992	
5°	987	989	991	996	997	94
15°	952	958	975	992	999	269
25°	882	896	926	957	970	407
35°	778	795	831	870	887	486
45°	639	651	688	724	737	492
55°	466	472	501	525	535	417
65°	292	287	302	316	323	289
75°	143	138	139	141	144	153
85°	34	29	26	22	22	40
90°	0	0	0	0	0	



TEST NUMBER: P296693

CATALOG NUMBER: 22RLN-LD5-40-RDP-UNV-L92765-W2A1-U-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	992.3	992.3	992.3	992.3	992.3
2.5°	990.6	990.6	992.3	994.0	995.7
5°	987.2	988.9	990.6	995.7	997.4
7.5°	982.1	983.8	988.9	995.7	999.1
10°	973.6	977.0	985.5	995.7	1000.8
12.5°	963.4	968.5	982.1	994.0	1000.8
15°	951.5	958.3	975.3	992.3	999.1
17.5°	937.9	946.4	966.8	985.5	994.0
20°	922.6	932.8	954.9	978.7	988.9
22.5°	902.3	915.8	943.0	970.2	982.1
25°	881.9	895.5	926.0	956.6	970.2
27.5°	859.8	875.1	907.4	941.3	954.9
30°	836.0	849.6	885.3	920.9	936.2
32.5°	808.8	822.4	859.8	897.2	914.1
35°	778.2	795.2	830.9	870.0	887.0
37.5°	745.9	761.2	800.3	837.7	853.0
40°	711.9	727.2	764.6	803.7	819.0
42.5°	676.3	691.6	727.2	764.6	781.6
45°	638.9	650.8	688.2	723.8	737.4
47.5°	599.8	608.3	644.0	678.0	691.6
50°	557.3	565.8	599.8	630.4	644.0
52.5°	511.4	518.2	550.5	577.7	593.0
55°	465.6	472.4	501.3	525.0	535.2
57.5°	419.7	423.1	448.6	472.4	482.6
60°	377.2	377.2	397.6	416.3	429.9
62.5°	327.9	333.0	348.3	367.0	372.1
65°	292.3	287.2	302.5	316.0	322.8
67.5°	251.5	248.1	258.3	270.2	273.6
70°	214.1	209.0	217.5	224.3	227.7
72.5°	175.0	173.3	176.7	181.8	183.5
75°	142.7	137.6	139.3	141.0	144.4
77.5°	113.8	105.3	107.0	105.3	107.0
80°	83.3	76.5	76.5	74.8	73.1
82.5°	56.1	52.7	49.3	45.9	44.2
85°	34.0	28.9	25.5	22.1	22.1
87.5°	13.6	10.2	8.5	8.5	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)